

CURRICULUM VITAE

Susan Lorey

Scil Proteins GmbH
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EDUCATION

Degree of Doctor of Philosophy (Ph. D)

September 1999

Institute of Biochemistry, Martin-Luther University Halle-Wittenberg

- Title: "Fluorogenic substrates and inhibitors for the detection of DAPI-activity on immune cells"
- Areas of study: Peptide synthesis and purification
 Enzyme kinetics
 Cell based assays

Degree of Bachelor of Science

September 1995

Institute of Biochemistry, Martin-Luther University Halle-Wittenberg

- Major: Biochemistry

RESEARCH EXPERIENCE

Researcher

October 2000 - present

Scil Proteins GmbH

- Construction and optimization of expression plasmids for maximizing protein expression
- Expression testing
- Ribosome display selection for screening of libraries for binding molecules
- Cultivation of primary and stable cell lines
- Cell characterization by FACS analysis
- Establishment of cell based assays for activity testing of proteins regarding induction of proliferation, migration, differentiation, phosphorylation, enzymatic activity, apoptosis

Assistant Researcher

October 1999 – September 2000

Institute of Biochemistry, Martin-Luther University Halle-Wittenberg

- Enzyme kinetic analysis of Tat(1-9) derivatives as inhibitors of DPIP

Ph.D student

October 1995 – September 1999

Institute of Biochemistry, Martin-Luther University Halle-Wittenberg

- Synthesis and optimisation of fluorogenic peptide substrates and inhibitors of DPIP using conventional peptide synthesis methods
- Purification and analytics using chromatographic methods (HPLC, TLC) and spectroscopic methods (MS, NMR)
- Enzyme kinetic analysis of substrate cleavage by DPIP and inhibition mode of DPIP using spectrometric analyses
- Cell based analysis of substrate cleavage by DPIP
- FACS based analysis of cellular anchorage of the cleavage product

SUMMARY OF SKILLS

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- Peptide synthesis and purification
 - Enzyme kinetic analyses
 - Construction of expression plasmids
 - Establishment of cell based assays
 - Ribosome display selection

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28.09.2007
Date